

Temperature measurements 2000 points TNE 2



Digital panel meters TNE2 can be used with temperature sensors.
Temperature is displayed in °C.
Those industrial apparatus are automatically delivered with a removable screwing connector, and an analog output.
The large readable display is made of red LED (green or yellow in option)

- -200 to +1200°C
- Dimensions : 72 x 24 mm
- Linear analog output
- Display : 14 mm LED

Functions

Thermocouples Temperature, K or J.....
(response curves according to NFC 42 321 (CEI 584/1))

Type	Range	Resolution	Accuracy (1)
K	-35.0 to +199.9°C	0.1°C	0,1% + 0,3°C
	-70 to +1200°C	1 °C	0.1% + 2°C
J	-80 to +940°C	1 °C	0.1% + 2°C

(1) ± (% of reading + digit degrees) at 23°C +/- 1°C for one year

The correction of reference junction is into the screwing connector. Maximal uncertainty due to reference junction: 0.5°C; if external CJC: 0.3°C

RTD Temperature, Pt100.....
(response curves according to NFC 43 760 (CEI 751))

Range	Resolution	Accuracy (1)
-150.0 to +199.9°C	0.1°C	0.1% + 0.3°C
-200 to +650°C	1 °C	0.1% + 2°C

(1) ± (% of reading + digit degrees) at 23°C +/- 1°C for one year

3 wires mounting.
Acceptable line resistance :
10 ohm per wire (maximum unbalanced between wires 0.04 Ω)
Measurement current in sensor < 0.4 mA.

General Characteristics

Display.....
2000 points (3 ½ digits), 14 mm height red LED (green or yellow in option), setting of brightness.
The last 3 digits switch off when overload occurs

Automatic zeroing and polarity.

Sampling rate.....
2.5 measurement per second

Temperature coefficient.....
≤ accuracy/10°C

Security in case of breakdown of sensor.....
makes decrease the measurement down to minimum value

Linear analog output.....
1mV/digit
linearity +/- 0,1%
acceptable load > = 2kohm
non insulated analog output

DIGITAL PANEL METERS

Operating conditions.....

Nominal conditions : 0 to + 50 °C

Limit conditions : -10 to + 50°C

Power supply.....

230 V~ (± 10 %) 50 to 60 Hz

Other power supplies :

6 V- ± 20 % non-insulated,

5 V- ± 10 % insulated,

9 to 18 V- insulated,

18 to 36 V- insulated,

36 to 72 V- insulated,

24 V~ ± 10 % insulated,

48 V~ ± 10 % insulated,

115 V~ ± 10 % insulated.

Consumption.....

4 VA max

Presentation.....

ABS Case.

I IP 40

Weight : 300 g. approximately

Connections

Removable screw connector

Connection.....

Removable screw connector

Options

Watertight metallic case

IP 65 Front panel watertight

Dimensions : 99 x 36 x 120 mm

Accessories

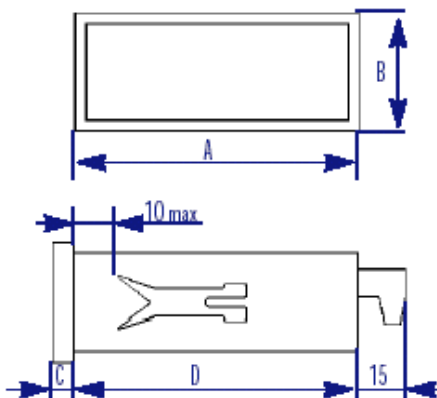
Mechanic adaptator

Allows adaptation of VNE into slightly larger cutout

Adaptation of 75x25mm panel meters

External dimensions 80 x 32 mm

Dimensions



Case	A	B	C	D	Panel cut
72 x 24	72	24	5	103	$68^{+0.8}_0 \times 22.2^{+0.3}_0$

Instructions to order

Digital panel meter

VNE 2



Reference to defer above

Pt100 accuracy 1°C..... P10
 Pt100 accuracy 0,1°C..... P11
 TC K accuracy 1°C..... K60
 TC K accuracy 0,1°C..... K61
 TC J accuracy 1°C..... J40

Display

Red.....R.....

Green.....V.....

Yellow.....J.....

Power supply

6V.....1.....
 5V.....2.....
 9 to 18V.....3.....
 18 to 36V.....4.....
 36 to 72V.....5.....
 24V.....6.....
 115V.....7.....
 230V.....8.....
 48V.....9.....

Case

Plastic.....0.....

Impervious & Metallic.....1.....

Options and accessories.....

Flange (72 x 24 mm)

AMD001

Display meter 12 channels

refer to manual BCM012



AOIP
BP 182
91133 Ris Orangis CEDEX
FRANCE
+33 169 028 900
www.aoip.com



SOFIMAE laboratory on our premises of Ris-Orangis
 *Ranges available on www.cofrac.fr